

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P946232

Luminaire Tested: **GALN-SB1D-940-U-T2U**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P946232
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-16)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1D-940-U-T2U
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 90 CRI, 4000K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7475 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

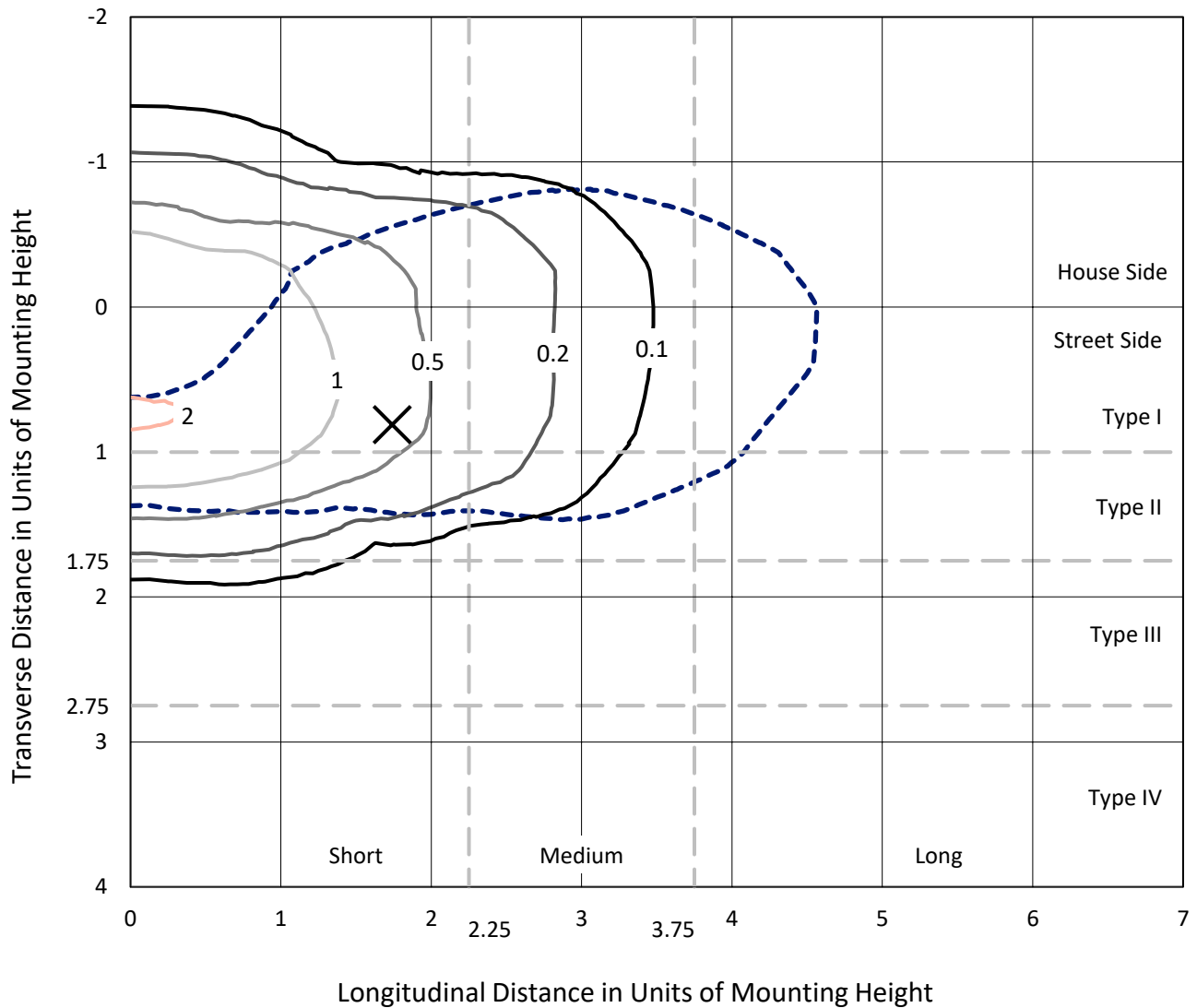
Input Watts (W): 79.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

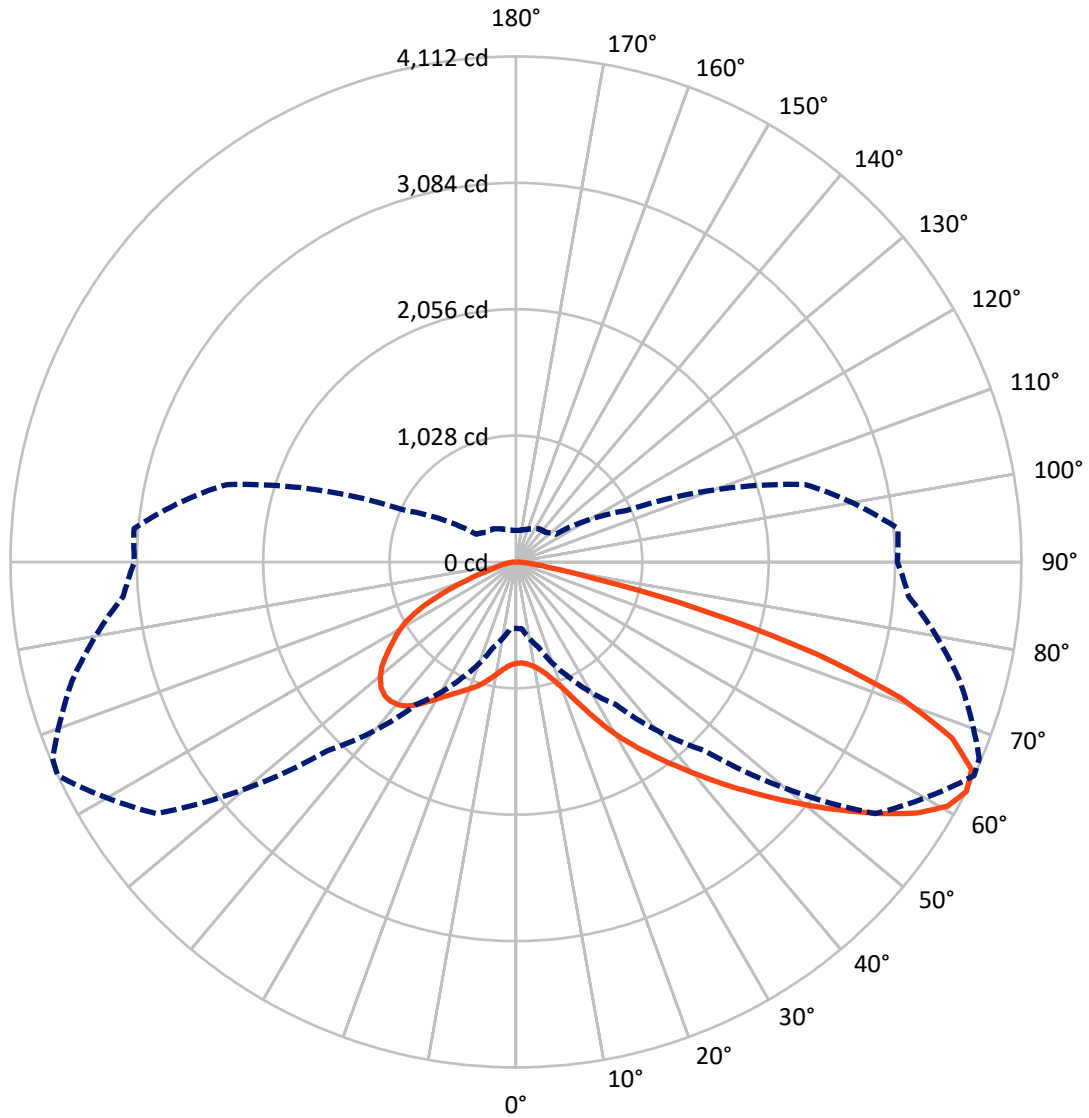
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2358.8	0.0	2358.8
	% Fixture	31.6	0.0	31.6
Street Side	Lumens	5116.2	0.0	5116.2
	% Fixture	68.4	0.0	68.4
Total	Lumens	7475.0	0.0	7475.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	82.1	1.1
10°-20°	278.5	3.7
20°-30°	564.7	7.6
30°-40°	977.1	13.1
40°-50°	1478.7	19.8
50°-60°	1733.7	23.2
60°-70°	1453.5	19.4
70°-80°	802.4	10.7
80°-90°	104.2	1.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7475.0	100.0
0°-180°	7475.0	100.0

Coefficient of Utilization



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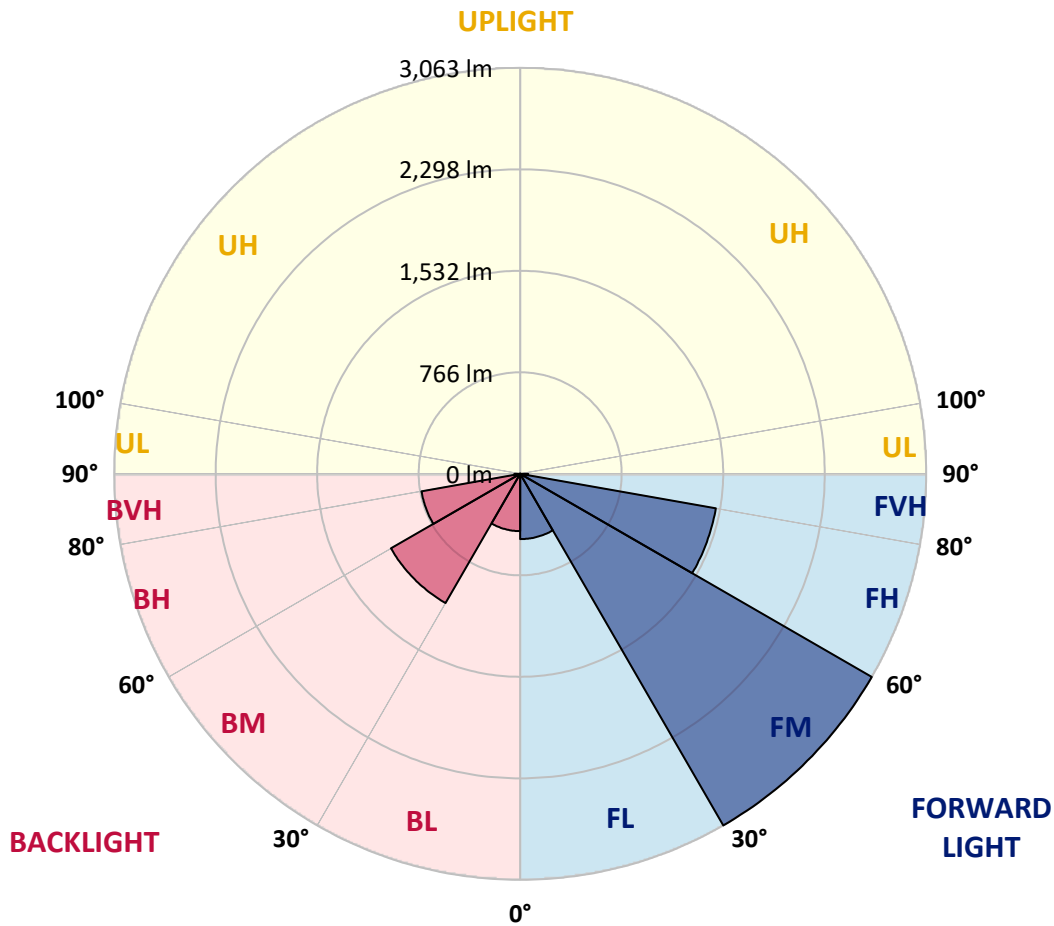
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.7	6.6			
FM (30°-60°)	3063.5	41.0			
FH (60°-80°)	1499.3	20.1			G1/1800
FVH (80°-90°)	60.7	0.8			G1/100
BL (0°-30°)	432.6	5.8	B1/500		
BM (30°-60°)	1126.1	15.1	B2/2500		
BH (60°-80°)	756.7	10.1	B2/1000		G2/1000
BVH (80°-90°)	43.5	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°
0°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
2.5°	818.3	816.0	817.9	817.9	818.7	818.3	821.0	821.8	822.9	825.3
5°	810.1	809.8	813.2	816.3	819.4	822.2	825.7	830.7	831.5	834.2
7.5°	807.4	805.1	810.5	814.4	821.8	828.4	837.7	846.2	849.7	850.9
10°	828.4	824.5	829.5	831.9	838.1	844.7	855.5	869.1	873.0	877.6
12.5°	864.0	859.8	867.1	870.6	876.5	882.3	889.6	902.8	904.8	913.3
15°	912.9	907.9	912.5	916.8	926.5	931.9	939.3	952.1	952.1	958.7
17.5°	979.2	972.6	976.1	977.7	983.9	992.0	1004.4	1015.7	1021.5	1019.2
20°	1078.1	1070.0	1070.0	1062.2	1059.9	1066.5	1082.8	1098.3	1104.5	1092.5
22.5°	1226.6	1215.0	1208.4	1182.1	1171.6	1172.4	1188.6	1207.6	1212.7	1191.4
25°	1415.5	1397.3	1388.4	1349.6	1325.9	1305.4	1318.2	1342.6	1349.6	1323.2
27.5°	1604.4	1605.5	1597.0	1550.5	1511.3	1473.7	1467.1	1492.7	1500.1	1470.2
30°	1869.3	1841.7	1825.4	1769.6	1713.7	1661.0	1633.9	1644.3	1646.3	1610.6
32.5°	2097.7	2090.7	2055.8	2006.9	1935.2	1852.6	1807.2	1790.5	1787.4	1736.6
35°	2357.9	2354.0	2317.2	2259.0	2181.4	2066.6	1984.8	1937.1	1933.2	1861.9
37.5°	2622.4	2622.4	2586.3	2522.7	2442.4	2298.9	2174.5	2098.8	2086.4	1993.4
40°	2833.4	2820.6	2827.1	2800.4	2708.5	2556.1	2385.0	2275.3	2258.6	2146.9
42.5°	2953.2	2948.9	2988.5	3018.3	2980.7	2858.9	2617.0	2466.5	2443.2	2316.0
45°	2979.9	2975.3	3045.9	3155.2	3208.0	3158.0	2869.0	2667.8	2639.4	2492.9
47.5°	2918.3	2909.0	3012.5	3185.1	3354.2	3442.2	3142.1	2886.1	2845.0	2665.0
50°	2732.9	2724.0	2880.7	3109.9	3403.4	3635.3	3438.3	3117.6	3054.8	2849.6
52.5°	2330.0	2334.2	2579.7	2894.6	3338.7	3755.6	3693.5	3361.6	3285.9	3038.5
55°	1815.0	1824.3	2126.0	2472.7	3079.6	3737.3	3867.6	3612.9	3537.6	3216.1
57.5°	1299.6	1340.7	1623.4	1966.6	2582.1	3448.4	3905.7	3851.7	3778.8	3410.0
60°	842.3	849.7	1140.6	1486.5	1966.2	2935.0	3828.5	4032.9	3975.8	3607.8
62.5°	539.8	544.9	722.1	1039.7	1415.1	2171.4	3568.6	4111.6	4094.1	3738.5
65°	396.7	392.9	485.2	687.2	953.2	1339.1	3064.1	4073.6	4108.1	3820.3
67.5°	331.2	325.8	371.1	475.8	702.3	760.5	2267.1	3826.5	3953.0	3811.0
70°	301.7	297.1	324.6	353.3	548.0	509.2	1142.9	3326.7	3521.3	3705.2
72.5°	255.6	247.4	285.0	313.7	426.2	390.5	472.4	2555.3	2792.6	3365.8
75°	198.2	192.7	224.9	276.1	320.3	304.8	298.6	1551.6	1810.7	2603.0
77.5°	157.1	149.7	179.2	215.2	288.1	230.0	217.6	668.2	924.9	1661.8
80°	118.3	111.7	136.1	170.2	221.4	173.4	140.8	272.6	348.6	841.9
82.5°	84.2	78.3	95.0	124.9	148.9	155.5	86.5	152.8	171.8	324.6
85°	53.9	50.4	63.6	78.3	94.6	100.1	52.7	79.9	87.6	133.8
87.5°	29.5	24.0	34.1	36.5	43.8	39.9	25.2	29.1	31.4	48.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

85°		90°	95°	105°	115°	125°	135°	145°	155°	165°	175°
823.7	0°	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7	823.7
825.3	2.5°	826.8	828.0	831.9	833.0	835.7	839.2	841.6	843.9	843.9	846.2
837.7	5°	838.1	840.8	848.9	853.2	860.2	867.1	871.4	876.5	879.6	881.1
857.5	7.5°	859.8	864.0	875.7	883.0	895.1	904.8	911.4	918.3	919.9	924.2
885.0	10°	889.3	894.3	907.5	921.4	935.8	947.8	954.0	959.1	961.0	961.8
920.3	12.5°	923.0	930.4	947.4	964.5	979.6	990.1	991.6	990.5	985.0	980.4
963.7	15°	964.5	971.1	990.1	1008.7	1023.4	1025.4	1015.7	1009.5	1002.9	1001.7
1012.2	17.5°	1014.1	1017.6	1035.1	1053.3	1054.5	1047.9	1033.5	1027.7	1021.5	1017.2
1075.4	20°	1071.9	1070.7	1083.2	1090.9	1082.8	1062.6	1040.9	1031.2	1025.0	1019.9
1153.0	22.5°	1140.9	1132.0	1130.5	1128.5	1106.8	1064.5	1035.1	1022.7	1013.0	1006.0
1261.2	25°	1241.4	1207.3	1183.6	1170.4	1121.6	1054.1	1016.5	988.9	970.7	958.7
1393.4	27.5°	1367.0	1309.6	1249.9	1217.7	1121.6	1032.7	971.5	926.9	897.0	884.6
1521.4	30°	1486.9	1426.8	1338.7	1274.7	1118.8	997.8	898.9	836.9	802.0	789.6
1630.7	32.5°	1589.3	1523.7	1433.0	1337.2	1112.2	941.2	809.0	740.3	706.6	691.9
1738.9	35°	1684.3	1614.5	1527.6	1405.8	1094.8	858.2	710.1	657.7	620.1	596.5
1849.1	37.5°	1781.6	1698.6	1617.2	1467.9	1063.4	761.3	634.1	589.5	545.3	513.5
1966.2	40°	1887.5	1788.2	1713.0	1504.7	1011.8	669.0	575.1	534.4	487.5	453.7
2101.2	42.5°	2011.2	1895.6	1819.6	1523.7	941.2	603.4	536.7	496.8	452.6	425.0
2245.8	45°	2140.3	2013.9	1917.0	1523.3	862.5	572.8	524.3	484.8	435.9	407.2
2394.4	47.5°	2275.7	2137.6	2001.1	1498.5	794.2	577.1	517.3	458.8	404.9	377.0
2544.4	50°	2411.4	2273.0	2082.6	1452.0	765.2	567.8	491.4	422.3	358.7	333.5
2685.2	52.5°	2546.0	2416.8	2152.7	1385.7	735.7	533.2	458.0	375.0	339.7	322.3
2830.6	55°	2681.3	2559.2	2229.1	1289.1	662.0	492.9	402.2	357.2	324.6	308.7
2973.0	57.5°	2817.1	2723.6	2301.7	1192.5	569.3	443.3	371.5	335.5	309.5	295.9
3092.0	60°	2958.2	2911.7	2376.5	1103.7	477.8	379.7	349.0	318.0	291.6	276.5
3206.4	62.5°	3103.7	3118.8	2435.1	989.3	393.6	340.9	328.9	297.1	271.5	257.1
3301.1	65°	3250.3	3318.5	2473.5	830.7	319.2	304.0	307.1	274.2	248.2	235.8
3370.5	67.5°	3360.8	3462.4	2462.6	628.6	261.8	269.1	280.0	250.1	225.7	216.0
3359.2	70°	3373.2	3445.3	2355.6	430.5	219.1	235.0	249.8	226.5	201.3	194.3
3201.0	72.5°	3208.0	3212.6	2057.3	281.2	185.4	206.3	218.0	202.4	178.0	171.0
2800.4	75°	2774.8	2656.9	1510.5	185.4	155.1	177.2	188.1	177.2	153.6	155.1
2095.3	77.5°	2102.3	1881.7	917.2	131.9	129.5	148.9	163.7	155.9	135.7	152.4
1053.7	80°	1083.2	1018.0	409.1	98.5	102.4	119.1	134.6	124.5	107.4	102.4
235.4	82.5°	248.2	288.5	161.3	70.6	74.1	85.7	102.8	93.5	77.2	65.2
98.1	85°	86.9	95.0	71.4	44.2	43.4	53.5	69.8	62.4	52.4	41.9
41.5	87.5°	27.5	36.1	26.8	17.8	18.6	24.0	32.2	29.5	24.4	15.9
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END O

180°
823.7
846.2
881.9
922.6
959.8
980.4
1001.7
1017.6
1020.3
1008.3
963.3
890.8
797.0
699.2
604.2
522.0
460.3
430.5
411.9
380.8
335.1
322.3
307.1
293.6
275.3
256.7
235.4
216.4
194.7
170.6
149.7
134.2
93.5
64.4
44.2
16.7
0.0

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